Lumination™ LED Luminaires

RS6 - Six-Inch LED Downlights

Project name _____

Date _____

Type _____

Product Description:

The Lumination RS6 LED downlights install in just minutes into most six-inch recessed housings, making the RS6 ideal for use in both retrofit and new construction applications. The RS6 delivers 700 or 1000 lumens at 70+ lumens per watt, bringing significant energy savings to residential, light commercial, and hospitality environments. All downlights in the RS family have instant-on, standard 120V dimming, and a uniform lit appearance, delivering premium performance in a compact, economical package.

Targeted Performance Summary:

Distribution Patterns: Wide
Delivered Lumen Output: 700, 1000
System Input Power: 10W, 13W
System Efficacy (LPW): 70 (10W), 75 (13W)
Input Voltage: 120V
Standard Dimming Controls: Smooth dimming down to 10%
CCT: 2700K, 3000K
CRI: 80+
Lifetime Rating: L70 @ 50,000 Hours
Input Frequency (Hz): 60Hz
Power Factor: >0.9
Mounting Options: Friction clips fit most 6" cans. E26 and GU24 base options.
Weight: 0.6 lb
IC Rating: Compatible with IC or non-IC housings.
Limited Warranty: 5 years system
Files Available: LM79, LM80, IES

Listings:

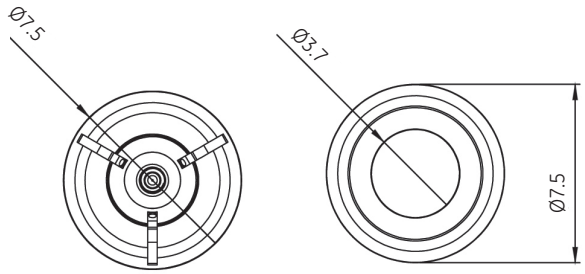
c UL us LISTED

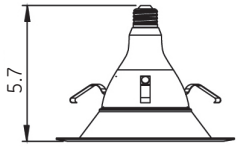
- UL and cUL Listed.
- Suitable for damp locations.

a product of ecomagination™

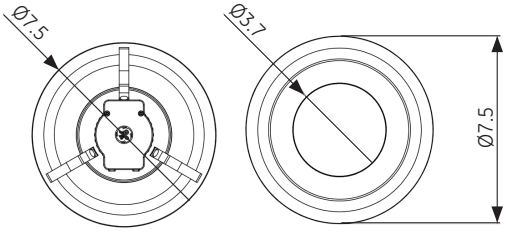
ENERGY STAR

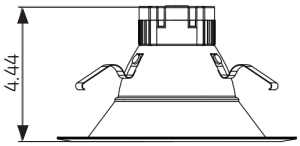
Product Dimensions:





6 inch recessed can with fixed base





6 inch recessed can with pigtail base

Ordering Information:

PRODUCT CODE	DESCRIPTION	RECESSED CAN SIZE	CCT	BASE TYPE	CRI	LUMENS	WATTS	LPW	RATED LIFE L70 (Hrs.)	DIMMABLE	LOCATION RATING	BASE ATTACHMENT
85153	LED10RS6/827E26P	6"	2700K	E26	80	700	10	70	35,000	Yes	Damp	Pigtail
85160	LED10RS6/830E26P	6"	3000K	E26	80	700	10	70	35,000	Yes	Damp	Pigtail
95851	LED10RS6/827GUP	6"	2700K	GU24	80	700	10	70	35,000	Yes	Damp	Pigtail
95852	LED10RS6/830GUP	6"	3000K	GU24	80	700	10	70	35,000	Yes	Damp	Pigtail
70120	LED13RS6/827E26P	6"	2700K	E26	80	1000	13	75	35,000	Yes	Damp	Pigtail
70122	LED13RS6/830E26P	6"	3000K	E26	80	1000	13	75	35,000	Yes	Damp	Pigtail
70124	LED13RS6/827GUP	6"	2700K	GU26	80	1000	13	75	35,000	Yes	Damp	Pigtail
70127	LED13RS6/830GUP	6"	3000K	GU26	80	1000	13	75	35,000	Yes	Damp	Pigtail

imagination at work

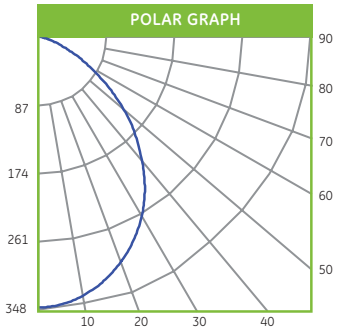
Photometric Data: Lumination™ RS6

RS6 - 700 Lumen

COEFFICIENTS OF UTILIZATION																		
RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	61	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31

NOTE: Floor Cavity Reflectance : 20%

POLAR GRAPH



CANDLEPOWER SUMMARY	
Angle	Candela
0	348
5	346
15	325
25	289
35	239
45	176
55	106
65	47
75	12
85	2
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0 - 30°	257	36.8
0 - 40°	406	58
0 - 60°	636	90.9
0 - 90°	700	100

Spacing Criteria: 1.16

CONE OF LIGHT		
Height	fc	Dia. (ft.)
4'	22	8.0
6'	10	12.0
8'	5	16.0
10'	3	20.0

APPLICATION REFERENCE (Open Space)		
Spacing	Avg. fc	W/ft²
4' x 4'	41.5	0.64
6' x 6'	19.4	0.30
8' x 8'	10.4	0.16
10' x 10'	6.9	0.11

10' ceiling, Open Space: 50' x 40' x 10'
LLF: 1.0 Initial, 80/50/20 Reflectances, 2.5' workplane

APPLICATION REFERENCE (Corridor)		
Spacing	Avg. fc	W/ft²
4' on ctr.	14.5	0.44
6' on ctr.	9.9	0.30
8' on ctr.	7.0	0.21
10' on ctr.	5.8	0.18

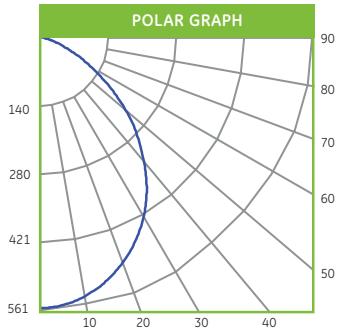
10' ceiling, Corridor: 6' W x 100' L
LLF: 1.0 Initial, 80/50/20 Reflectances,
Light levels on the ground

RS6 - 1000 Lumen

COEFFICIENTS OF UTILIZATION																		
RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	38	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

NOTE: Floor Cavity Reflectance : 20%

POLAR GRAPH



CANDLEPOWER SUMMARY	
Angle	Candela
0	560
5	555
15	518
25	451
35	363
45	248
55	125
65	46
75	12
85	1
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0 - 30°	405	40.6
0 - 40°	632	63.3
0 - 60°	937	93.7
0 - 90°	1000	100

Spacing Criteria: 1.12

CONE OF LIGHT		
Height	fc	Dia. (ft.)
4'	35	7.3
6'	16	11.0
8'	9	14.7
10'	6	18.3

APPLICATION REFERENCE (Open Space)		
Spacing	Avg. fc	W/ft²
4' x 4'	60	0.81
6' x 6'	28	0.38
8' x 8'	15	0.20
10' x 10'	10	0.14

10' ceiling, Open Space: 50' x 40' x 10'
LLF: 1.0 Initial, 80/50/20 Reflectances, 2.5' workplane

APPLICATION REFERENCE (Corridor)		
Spacing	Avg. fc	W/ft²
4' on ctr.	21.7	0.56
6' on ctr.	14.7	0.38
8' on ctr.	10.4	0.27
10' on ctr.	8.7	0.23

10' ceiling, Corridor: 6' W x 100' L
LLF: 1.0 Initial, 80/50/20 Reflectances,
Light levels on the ground

Product Specifications:

Construction:

- 16 gauge steel housing resists dents during transportation and installation
- Spring steel mounting clips allow for several reinsertions without deformation

Installation:

- Edison base installs into standard sockets
- Universal mounting clips install into standard 6" downlight housings in minutes
- Unique mounting clip design delivers a secure hold with easy removability

Optical System:

- Flat lens for sleek, modern appearance
- Edge-to-edge, uniform lit appearance with no hot spots or pixelation
- Highly transmissive lens material for optimal combination of light transmission while diffusing LEDs from direct view

Electrical System:

- Integrated, high-efficiency driver with power factor > 0.9
- Dimmable to 10% with most incansescent dimmers
- Instant-on

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